

Title (en)
OPTICAL FIBER COMMUNICATION WITH FREQUENCY-DIVISION-MULTIPLEXING

Publication
EP 0201825 A3 19880316 (EN)

Application
EP 86106096 A 19860503

Priority
US 73329085 A 19850510

Abstract (en)
[origin: EP0201825A2] A system is disclosed for providing multi-channel transmission of digital and broadband video information in optical fiber communication for local area networks through frequency-division-multiplexing. A plurality of closely spaced optical carrier wave pairs (90-100) is generated with the optical carrier waves within each optical carrier wave pair having a predetermined separation frequency between one another. Each of the plurality of optical carrier wave pairs is assigned to a predetermined frequency slot and optically combining the plurality of optical carrier wave pairs to provide a multiplexed optical output wave. Advantageously, in addition to direct detection the plurality of optical carrier wave pairs (90-100) may be detected by opto-electronic heterodyne detection and/or incoherent optical-heterodyne detection to electronically recover the optical carrier wave pairs.

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CPC (source: EP US)
H04B 10/50 (2013.01 - EP US); **H04B 10/572** (2013.01 - EP US)

Citation (search report)
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